

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	)	
Helmut Heinzmann	)	Group:
Serial No.:	)	
Filed: October 22, 2003	)	Examiner:
Title: METHOD FOR THE PRODUCTION OF	)	
FIBER PULP	)	

INFORMATION DISCLOSURE STATEMENT

MS DD  
 Commissioner for Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

Sir:

Applicant wishes to bring to the attention of the Examiner the documents identified on the attached form PTO-1449. Applicant respectfully requests that these documents be made of record in the present application.


A copy of each of the documents is enclosed.

European Patent Document EP 1 076 132 teaches bonding a charge of a mineral material to the cellulose fibers in a suspension, the fiber suspension as a papermaking pulp contains at least hydrogen carbonates, carbonates or alkaline metal silicates and/or alkaline earths together with a reagent. The bonding material for attachment to the fibers is added as a mineral hydroxide for precipitation of its carbonates or silicates on to the fibers. The fibers suspension contains sodium hydrogen carbonates and also calcium hydrogen carbonates and/r magnesium hydrogen carbonates. The alkali content is completed at 2-30 degrees F. The fiber suspension contains ions of sodium (N+) at a rate of 20-1000 ppm, or ions of calcium (Ca<2> (+)) at a rate of 5-200 ppm and/or magnesium concentrated milk or in solid form with a particle size of  $\leq 6 \mu m$ . After the mineral material has precipitated onto the fibers in the suspension, a gas is injected into the suspension containing a carbon dioxide to neutralize and stabilize the pH value of the cellulose fiber suspension. The fiber suspension used in supplied as a pulp of chemically bleached or unbleached fibers, a mechanical pulp, a thermomechanical pulp, or mixtures of pulp types. An independent claim is included for the production of paper sheets from the pulp of a fiber suspension where mineral

materials have been disposed on to the fibers. The wet pulp is fed to a papermaking machine, and the wet sheets are dried.

In the event Applicants have overlooked the need for a payment of fee, or additional payment of fee, or have overpaid a fee, Applicants hereby conditionally petition therefor and authorize that any charges or credits be made to Deposit Account No. 20-0095, TAYLOR & AUST, P.C.

Respectfully submitted,



Stephen D. Horchem

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Agent for Applicant

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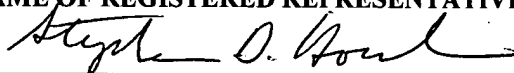
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CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: MS DD, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on: October 22, 2003.

Stephen D. Horchem, Reg. No. 53,035

NAME OF REGISTERED REPRESENTATIVE



SIGNATURE

October 22, 2003

DATE

ATTORNEY DOCKET NO.:  
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SERIAL NO:

## INFORMATION DISCLOSURE STATEMENT

APPLICANT:  
Helmut HeinzmannFILING DATE:  
October 22, 2003

GROUP:

## U.S PATENT DOCUMENTS

Examiner Initial *		Document No.	Date	Name	Class	Subclass	Filing Date
	AA	5,223,090	6/1993	Klungness, et al.	162	9	December 11, 1991
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

## FOREIGN PATENT DOCUMENTS

							Translation	
		Document No.	Date	Country	Class	Subclass	Yes	No
	AL	WO 98/35095	8/1998	PCT	D21H	17/67		X
	AM	EP 1 076 132	8/1999	Europe	D21H	17/70		X
	AN							
	AO							
	AP							

## OTHER REFERENCES (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

		"Effect of Fiber Loading on Paper Properties" John H. Klugness, et al., Dated March 1996 (5 pages)
		"Lightweight, High-Opacity Paper: Process Costs and Energy Use Reduction" John H. Klugness, et al., Dated 1999 – (4 pages)

EXAMINER:

DATE CONSIDERED:

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.